

APPLICANT(S): KRITCHMAN, Elijah M. et al.
SERIAL NO.: 10/716,426
FILED: November 20, 2003
Page 3

AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled:

Listing of Claims

1. (Currently amended) A method for building three-dimensional objects, said method comprising:

dispensing a first material used to form at least one three-dimensional object and at least part of a support structure; and

dispensing a second material used to form at least another part of the support structure and a release layer between said three-dimensional object and said support structure, ~~said second material being at least partly liquid or paste after curing,~~

wherein said support structure is self-supporting and comprises at least one pillar of said first material ~~dispensed within~~ surrounded by said second material, said pillar not being in contact with said three-dimensional object.

2. (Original) The method of claim 1 wherein at least said first material is a photopolymer and at least the three-dimensional object is formed after being irradiated by electromagnetic radiation.

3. (Currently Amended) The method of claim 1 wherein said second material is comprises a photopolymer and the support structure is formed after being irradiated by electromagnetic radiation.

4. (Currently Amended) The method of claim 1 wherein said release layer is comprises a photopolymer and is formed after being irradiated by electromagnetic radiation.

5.-7. (Cancelled)

8. (Previously Presented) The method of claim 1 comprising separating said support structure and release layer from said three-dimensional object.

APPLICANT(S): KRITCHMAN, Eliahu M. et al.
SERIAL NO.: 10/716,426
FILED: November 20, 2003
Page 4

9. (Previously Presented) The method according to claim 8 comprising subjecting said support structure and release layer to a solvent causing the support structure and release layer to weaken.

10. (Cancelled).

11. (Previously Presented) The method according to claim 1, where said support structure further comprises a container formed of said first material, said container being capable of confining said second material.

12. (Cancelled).

13. (Previously Presented) The method according to claim 1, further comprising constructing at least one connecting membrane of said first material attached to at least one said pillar.

14. - 20. (Cancelled)

21. (Currently Amended) A method for building three-dimensional objects, said method comprising:

dispensing a curable build material to form a three-dimensional object and at least part of a support structure;

dispensing a support material to form at least part of the a support structure, the build material being solid after curing and the support material being at least partly liquid after curing; and

selectively dispensing the build material to form at least another part of the support structure, said other part comprising at least a container capable of holding retaining said support material, said container and said support material comprising a support structure for said three-dimensional object said support material being at least partly liquid or paste.

APPLICANT(S): KRITCHMAN, Eliahu M. et al.
SERIAL NO.: 10/716,426
FILED: November 20, 2003
Page 5

22. (Original) The method according to claim 21, wherein said container comprises a base, a plurality of walls and an open top.

23. (Previously Presented) The method according to claim 22, wherein said container comprises at least one nib projecting from at least one of said walls, wherein said at least one nib is capable of restraining the movement of the three-dimensional object.

24. (Currently Amended) The method according to claim 21, wherein said support structure further comprises at least one pillar a mixture of said build material, and said support material and said at least one pillar being retained within said container.

25. (Previously Presented) The method according to claim 21, wherein each of said build material, support material and container are dispensed in layers.

26. - 30. (Cancelled)

31. (Currently amended) A The method of claim 1, wherein said support structure comprises a plurality of pillars for building three-dimensional objects, said method comprising:

dispensing a build material to form a three-dimensional object;
dispensing the build material and a support material which in combination form a support structure, said support structure comprising a plurality of fine pillars which are not in contact with said three-dimensional object, said pillars being surrounded by said support material and separated from said three-dimensional object by a said release layer.

32. (Currently Amended) The method according to claim 31, further comprising constructing membranes of said build first material or a combination of said build material and said support material between said pillars.

33. - 34. (Cancelled)

APPLICANT(S): KRITCHMAN, Eliahu M. et al.
SERIAL NO.: 10/716,426
FILED: November 20, 2003
Page 6

35. (Currently Amended) The method according to claim 1 or 34, wherein said at least one pillar of said pillars comprises a plurality of layers and wherin a topmost layer of said at least one pillar is adjacent to the release layer being between the said three-dimensional object and said support structure being supported.

36. - 60. (Cancelled)

61. (New) The method of claim 1, wherin said second material is at least partly liquid or paste.